

# Program at a Glance

46th U.S. Rock Mechanics / Geomechanics Symposium  
 22-28 June, 2012, Chicago, Illinois

DATE AND TIME	EVENT
<b>Friday, 22 June 2012</b>	<b><u>Friday, 22 June 2012</u></b>
8:00 am - 10:00 am	Registration
8:30 am - 5:00 pm	Workshop 1: Geomechanics Solutions for Environmental and Technical Challenges in Unconventional Resources
<b>Saturday, 23 June 2012</b>	<b><u>Saturday, 23 June 2012</u></b>
7:30 am - 10:00 am	Registration
8:00 am - 5:00 pm	Workshop 2: ISRM-ARMA Workshop on Petroleum Geomechanics Testing
8:30 am - 4:00 pm	Technical Tour 1: Urban Underground Limestone Mine
<b>Sunday, 24 June 2012</b>	<b><u>Sunday, 24 June 2012</u></b>
7:30 am - 9:00 pm	Registration and Speakers Ready Room
9:00 am - 4:00 pm	Short Course 1: Floor Stability in Underground Coal Mines: The Illinois Basin Experience
8:30 am - 5:00 pm	Short Course 2: Monitoring and Modelling Seismic Rock Mass Response to Mining
8:30 am - 12:00 noon	Technical Tour 2: Fermilab
9:00 am - 4:00 pm	ARMA Board Meeting
9:30 am - 12:30 pm	Special Morning Activity: House of Blues Gospel Brunch
1:30 pm - 4:00 pm	Special Afternoon Activity: Architectural River Boat Cruise
1:00 pm - 4:00 pm	Exhibit Set Up
6:00 pm - 6:20 pm	Opening Session
6:20 pm - 7:00 pm	MTS Lecture: Jay Melosh, Purdue University, "Dynamic Fragmentation, Asteroid Impacts and Meteorites from Mars"
7:00 pm - 9:00 pm	Opening Reception and Exhibits. <i>Sponsored by MTS Systems Corp.</i>

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<b>DATE AND TIME</b>	<b>EVENT</b>			
<b>Monday, 25 June 2012</b>	<b><u>Monday, 25 June 2012</u></b>			
7:00 a.m. - 6:45 p.m.	Registration and Speakers Ready Room			
7:00 a.m. - 7:50 a.m.	Speaker's Breakfast			
8:00 a.m. - 9:30 a.m.	<b>Session 1</b>	<b>Session 2</b>	<b>Session 3</b>	<b>Session 4</b>
	<i>Geomechanics of Reservoirs and Caprocks</i>	<i>Coal Mine Strata Behavior - I</i>	<i>Geothermal &amp; Hydrothermal Processes in Rock</i>	<i>Novel Testing Techniques</i>
9:00 a.m. - 9:30 a.m.	Set-up First Poster Session			
9:30 a.m. - 4:00 p.m.	Exhibits Open			
9:30 a.m. - 10:00 a.m.	Coffee Break. <i>Sponsored by Haley &amp; Aldrich, Inc.</i>			
10:00 a.m. - 10:50 a.m.	Plenary Address: Paul Young, University of Toronto, "Rock Fracture Dynamics and Induced Seismicity"			
11:00 a.m. - 12:30 p.m.	<b>Session 5</b>	<b>Session 6</b>	<b>Session 7</b>	<b>Session 8</b>
	<i>Geomechanics Modeling of Hydraulic Fracturing in Fractured Shale Reservoirs</i>	<i>Support and Reinforcement in Hard Rock Mining - I</i>	<i>Influence of CO2 on Physical Properties</i>	<i>Time and Environment-dependent Behavior</i>
12:30 p.m. - 1:45 p.m.	Lunch and Plenary Address: Luis D. Alfaro, Panama Canal Authority, "The Panama Canal Expansion." <i>Sponsored by Agapito Associates, Inc.</i>			
12:30 p.m. - 1:45 p.m.	Lunch Meeting of the ARMA Publications Committee			
1:00 p.m. - 5:00 p.m.	Special Afternoon Activity: Chicago Grand Tour			
2:00 p.m. - 3:30 p.m.	<b>Session 9</b>	<b>Session 10</b>	<b>Session 11</b>	<b>Session 12</b>
	<i>Shale, Sand and Chalk Behavior Around Wellbores and Perforations</i>	<i>Rock Mass Excavation and Deformation</i>	<i>Challenges in Numerical Modeling</i>	<i>Acoustic Emission</i>
3:30 p.m. - 4:00 p.m.	Coffee Break and Exhibits			
4:00 p.m. - 5:30 p.m.	<b>Session 13</b>	<b>Session 14</b>	<b>Session 15</b>	<b>Session 16</b>
	<i>Numerical Modeling of Fractures in Unconventional Reservoirs</i>	<i>Drilling Mechanics</i>	<i>Modeling Anisotropy and Damage</i>	<i>Rock Mass Characterization</i>
5:30 p.m. - 6:30 p.m.	First Poster Session			
6:15 p.m. - 9:45 p.m.	Special Evening Activity: Major League Baseball, Chicago Cubs vs New York Mets, Wrigley Field			
7:00 p.m. - 9:45 p.m.	ARMA Fellows Dinner and Meeting			

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<b>DATE AND TIME</b>	<b>EVENT</b>			
<b>Tuesday, 26 June 2012</b>	<b><u>Tuesday, 26 June 2012</u></b>			
7:00 a.m. - 6:30 p.m.	Registration and Speakers Ready Room			
7:00 a.m. - 7:50 a.m.	Speaker's Breakfast			
9:00 a.m. - 1:00 p.m.	Special Morning Activity: Bike Chicago			
8:00 a.m. - 9:30 a.m.	<b>Session 17</b>	<b>Session 18</b>	<b>Session 19</b>	<b>Session 20</b>
	<i>Unconventional Reservoir Geomechanics</i>	<i>Coal Mine Strata Behavior - II</i>	<i>Fluid Flow, Geomechanics and Geophysics of Cracked and Fractured Media</i>	<i>Failure Response</i>
9:00 a.m. - 9:30 a.m.	Set-up Second Poster Session			
9:30 a.m. - 4:00 p.m.	Exhibits Open			
9:30 a.m. - 10:00 a.m.	Coffee Break			
10:00 a.m. - 10:50 a.m.	Plenary Address: John Rudnicki, Northwestern University, "Formation and Extension of Localized Compaction in Porous Sandstones"			
11:00 a.m. - 12:30 p.m.	<b>Session 21</b>	<b>Session 22</b>	<b>Session 23</b>	<b>Session 24</b>
	<i>Production Geomechanics at the Sand Face</i>	<i>Support and Reinforcement in Hard Rock Mining - II</i>	<i>Carbon Sequestration on the Reservoir Scale</i>	<i>Heterogeneity in Rocks</i>
12:30 p.m. - 2:00 p.m.	Lunch on your own			
12:30 p.m. - 2:00 p.m.	Lunch Meeting of the ARMA Future Leaders <i>Sponsored by TerraTek, a Schlumberger Company</i>			
2:00 p.m. - 3:30 p.m.	<b>Session 25</b>	<b>Session 26</b>	<b>Session 27</b>	<b>Session 28</b>
	<i>Integration of Microseismic Monitoring into Natural and Hydraulic Fracture Characterization in Shale Reservoirs</i>	<i>Stability and Support of Caverns and Tunnels</i>	<i>Rock Fall and Slope Analysis</i>	<i>Mapping and Imaging</i>
3:30 p.m. - 4:00 p.m.	Coffee Break and Exhibits			
4:00 p.m. - 5:30 p.m.	<b>Session 29</b>	<b>Session 30</b>	<b>Session 31</b>	<b>Session 32</b>
	<i>Modeling of Hydraulic Fracture Interactions in Naturally Fractured Formations</i>	<i>Advances in In Situ Stress Determination</i>	<i>Discrete Simulations in Geomechanics</i>	<i>Static &amp; Dynamic Response of Rocks</i>
5:30 p.m. - 6:30 p.m.	Second Poster Session			
7:15 p.m. - 9:30 p.m.	Awards Banquet, ARMA President's Address, Mark Zobak; ISRM President's Address, Xia-Ting Feng			

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<b>DATE AND TIME</b>	<b>EVENT</b>			
<b>Wednesday, 27 June 2012</b>	<b><u>Wednesday, 27 June 2012</u></b>			
7:00 a.m. - 4:00 p.m.	Registration and Speakers Ready Room			
7:00 a.m. - 7:50 a.m.	Speaker's Breakfast			
8:00 a.m. - 9:30 a.m.	<b>Session 33</b>	<b>Session 34</b>	<b>Session 35</b>	<b>Session 36</b>
	<i>Classic and Novel Wellbore Stability Evaluation</i>	<i>Surface Mine Pit Slope Stability</i>	<i>Fracture Processes and Testing</i>	<i>Fluid Flow &amp; Deformation in Porous Media: Connecting Micro- and Macro- scale Properties</i>
9:00 a.m. - 1:00 pm	Special Morning Activity: The Museum of Science and Industry			
9:30 a.m. - 2:00 p.m.	Exhibits Open			
9:30 a.m. - 10:00 a.m.	Coffee Break			
10:00 a.m. - 10:50 a.m.	Plenary Address: Paul La Pointe, Golder Associates, "It's the Cracks that Matter: DFN Modeling of Everything Rock"			
11:00 a.m. - 12:30 p.m.	<b>Session 37</b>	<b>Session 38</b>	<b>Session 39</b>	<b>Session 40</b>
	<i>Monitoring of Hydraulic Fracturing in Unconventional Reservoirs</i>	<i>Behavior of High Porosity Materials</i>	<i>Numerical Modeling of Crack Growth</i>	<i>Fluid-induced Stabilization and Destabilization of Fractures and Faults</i>
12:30 p.m. - 2:00 p.m.	Lunch on your own			
12:30 p.m. - 1:15 p.m.	Meeting of the CSM ARMA Student Chapter			
12:30 p.m. - 2:00 p.m.	Lunch Meeting of the Organizing Committee for San Francisco 2013			
2:00 p.m. - 3:00 p.m.	Exhibit Take Down			
2:00 p.m. - 3:30 p.m.	<b>Session 41</b>	<b>Session 42</b>	<b>Session 43</b>	<b>Session 44</b>
	<i>Interaction of Natural and Induced Fractures and Stimulated Reservoir Volume</i>	<i>Case Studies in Hard Rock Mining</i>	<i>Applications of Numerical Modeling</i>	<i>Transport and Coupled Processes in Natural Fractures and Along Interfaces</i>
3:45 p.m. - 4:00 p.m.	Closing Session			
Evening	Special Evening Activity: Dinner Cruise Aboard The Spirit of Chicago			
<b>Thursday, 28 June 2012</b>	<b><u>Thursday, 28 June 2012</u></b>			
9:30 am- 4:00 pm	Technical Tour 3: Chicago's Tunnel and Reservoir Project (TARP)			